

IN THE CLAIMS

5 Please cancel Claims 12-18, 33-42, 44-52, and 59 without prejudice as follows:

1. (Original) Saddle pad apparatus adapted to support a saddle while maintaining substantially unimpeded movement of the spinal column of a living subject.

10 2. (Original) The apparatus of Claim 1, wherein said apparatus comprises a plurality of pads disposed laterally to said spine.

3. (Original) The apparatus of Claim 2, wherein said plurality comprises four discrete pads, two per side of the spine.

4. (Original) The apparatus of Claim 2, wherein at least one of said pads varies in thickness.

15 5. (Original) The apparatus of Claim 2, wherein at least a portion of said plurality of pads are formed from a visco-elastic foam material.

6. (Original) The apparatus of Claim 2, wherein said plurality of pads are disposed in pockets formed substantially between a first layer and a second layer of material.

20 7. (Original) The apparatus of Claim 6, wherein said plurality of pads are made removable from said pockets via Velcro strips disposed at seams of said pockets.

8. (Original) The apparatus of Claim 6, wherein said first layer and second layer comprise sheepskin and a fiber-based material, respectively, said sheepskin being disposed to contact the skin of said living subject, said fiber-based material being disposed to contact said saddle.

9. (Original) The apparatus of Claim 1, wherein said living subject comprises an equine.

25 10. (Original) The apparatus of Claim 1, wherein said apparatus is further adapted to mitigate rocking of said saddle back and forth on said living subject during riding.

11. (Original) The apparatus of Claim 4, wherein said apparatus is further adapted to mitigate rocking of said saddle back and forth on said living subject during riding based at least in part on said variation in thickness.

30 12. -18. (Cancelled)

19. (Original) Saddle pad apparatus adapted to support a saddle on a living subject during riding such that said saddle is substantially stable around a rotational axis transverse to the longitudinal axis of the spinal column of said subject.

20. (Original) The apparatus of Claim 19, wherein said apparatus comprises a plurality of pads disposed laterally to said spine.

21. (Original) The apparatus of Claim 20, wherein said plurality comprises four discrete pads, two per side of the spine.

22. (Original) The apparatus of Claim 20, wherein at least one of said pads varies in thickness.

23. (Original) The apparatus of Claim 20, wherein at least a portion of said plurality of pads are formed from a visco-elastic foam material.

24. (Original) The apparatus of Claim 20, wherein said plurality of pads are disposed in pockets formed substantially between a first layer and a second layer of material.

25. (Original) The apparatus of Claim 24, wherein said plurality of pads are made removable from said pockets via Velcro strips disposed at seams of said pockets.

26. (Original) The apparatus of Claim 24, wherein said first layer and second layer comprise sheepskin and a fiber-based material, respectively, said sheepskin being disposed to contact the skin of said living subject, said fiber-based material being disposed to contact said saddle.

27. (Original) The apparatus of Claim 19, wherein said living subject comprises an equine.

28. (Original) The apparatus of Claim 19, wherein said apparatus is further adapted to support said saddle while maintaining substantially unimpeded movement of the spinal column of said living subject.

29. (Original) A saddle pad adapted for use with a saddle on an equine, comprising:

first and second substantially flexible elements having roughly the same shape, said first and second elements being bound together in at least a plurality of locations along their periphery, said first element being in direct contact with the skin of said equine; and

a plurality of compressible foam pad elements disposed between said first and second flexibly elements, said pad elements being disposed within said saddle pad such that the movement of the spine of said equine is substantially unimpeded by said saddle and said pad elements during riding,

wherein substantial weight redistribution of said saddle in a front-back direction is frustrated by said pad elements; and

wherein said unimpeded spine movement, said frustration of redistribution, and said first flexible element cooperate to provide reduced discomfort for said equine during said riding.

5 30. (Original) The saddle pad of Claim 29, wherein said first element comprises a thick sheepskin, and said foam elements comprise visco-elastic foam elements.

31. (Original) The saddle pad of Claim 29, further comprising at least one peripheral ridge disposed substantially along a front or back periphery of said first and second elements, said peripheral ridge cooperating with an edge of said saddle to substantially frustrate relative motion
10 between said saddle pad and said saddle in at least one direction during riding.

32. (Original) A saddle pad adapted for use, with a saddle, on an equine, comprising:

first and second substantially flexible elements having roughly the same shape, said first and second elements being bound together in at least a plurality of locations along their periphery, said first element being in direct contact with the skin of said equine;

15 a plurality of compressible foam pad elements disposed between said first and second flexibly elements, said pad elements being disposed within said saddle pad such that the movement of the spine of said equine is substantially unimpeded by said saddle and said pad elements during riding,

first and second restraining straps affixed to at least said second flexible element, said straps
20 each being adapted for substantially concealed tethering to said saddle; and

at least one peripheral ridge disposed substantially along a front or back periphery of said first and second elements, said peripheral ridge cooperating with an edge of said saddle to substantially frustrate relative motion between said saddle pad and said saddle in at least one direction during riding.

25 33.- 42. (Cancelled)

43. (Original) Tilt-inhibiting saddle pad apparatus, comprising:

a body element having a plurality of pockets formed therein;

a plurality of pad elements disposed within respective ones of said pockets; and

a contour element disposed within a respective one of said pockets, said contour element
30 having physical properties adapted to cooperate with said pad elements and the anatomy of an

animal on which said pad apparatus and a saddle are disposed to maintain said saddle in a substantially constant orientation with respect to said animal.

44. - 52. (Cancelled)

5 53. (Original) A pad element adapted for use in a saddle pad, wherein said pad element is formed from a substantially resilient material and is adapted for selective removal from said saddle pad by a user.

54. (Original) The pad element of Claim 53, wherein said resilient material comprises a visco-elastic foam.

10 55. (Original) The pad element of Claim 53, wherein said pad element has a plurality of densities associated therewith in its uncompressed state.

56. (Original) The pad element of Claim 55, wherein said plurality of densities are substantially stratified with respect to the width dimension of said element.

57. (Original) The pad element of Claim 53, wherein said pad element further comprises a plurality of substantially rounded edges.

15 58. (Original) The pad element of Claim 53, wherein said pad element is shaped substantially to accommodate a particular artifact on the anatomy of an animal on which said pad element and saddle pad is utilized.

59. (Cancelled)

20 60. (Original) Apparatus adapted for use on high-withered animals, comprising:
a substantially flexible pad having a plurality of features adapted to capture respective ones of pad elements;

a plurality of pad elements captured by respective ones of said features;

wherein said pad elements and said pad cooperate to raise a frontal portion of a saddle disposed over top of said pad element with respect to a withers region.

25 61. (Original) The apparatus of Claim 60, wherein said pad elements are formed from visco-elastic foam.

62. (Original) The apparatus of Claim 61, further comprising a pad interface adapted to interface between said pad and said animal, said pad interface adapted to (i) dissipate localized pressure; (ii) dissipate heat; and (iii) dissipate moisture.

30 63. (Original) A coordinated riding system for use on an animal, comprising:
a pad retaining structure;

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a plurality of pad elements retained by said structure and adapted to provide a substantially uniform distribution of pressure; and

an interface element disposed between said animal and said pad elements, said interface element being adapted to provide substantial pressure dissipation, moisture dissipation, and
5 thermal dissipation.

64. (Original) The system of Claim 63, wherein said retaining structure comprises a saddle pad, and said pad elements comprise visco-elastic foam pads disposed at or near the withers region of said animal.

65. (Original) The system of Claim 64, wherein said interface element comprises a
10 sheepskin layer with hair-side disposed facing the hide of said animal.